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L9: Entry 2 of 2

File: USPT

Jun 15, 1993

DOCUMENT-IDENTIFIER: US 5220440 A

TITLE: Data compression method having a fixed ratio of compression for image data, and image data compression device

Brief Summary Text (27):

The disadvantage described above can be overcome by determining in advance, whether there remains sufficient memory capacity in the storage device 102 for storing, in the compressed state, the total picture image information.

Brief Summary Text (32):

As described so far, the known picture image storing device cannot determine in advance the amount of information resulting from the compressed picture image information of the original document, and the device, therefore, offers no means of deciding in advance whether or not there remains sufficient memory capacity in the storage device 102 for the storage of the compressed picture image information. Consequently, the operations for the reading of an original document into the system will be complicated. In addition, the quality of the picture images will deteriorate considerably if an attempt is made to increase the block size L for the purpose of improving the encoding efficiency, and the amount information in the block after it is compressed will be redundant.

Brief Summary Text (36):

Specifically, the device which measures the ratio of compression performs a prescanning operation in advance of the regular reading operation. The ratio of compression is thereby measured in advance for the picture image information of the original document. On the basis of the ratio of compression, whether or not there remains sufficient memory capacity in the storage device 102 for the storage of the compressed picture image information is determined.

Brief Summary Text (38):

The other known solution is to provide device which estimates the ratio of compression for an original document in advance by a statistical process. The average ratio of compression estimated for an original document is applied to a process for determining the amount of information, after compression. On the basis of the amount of information thus obtained, whether or not there remains memory capacity in the storage device 102 sufficient for the storage of the compressed picture image information is determined.

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